For the Record

Distribution of D1S80 and HLA-DQA1 Alleles in a Southern Italian Population Sample

Nunzio Di Nunno, M.D.,[1] Stefania Lonero Baldassarra, B.Sc.,[1] Monica Carbonara, B.Sc.,[2] Luigi Viola, M.D.,[1] Stanislao Mangiatordi, M.D.,[1] Cosimo Di Nunno, M.D.[1]

Population: Southern Italian (from Apulia); $N = 143$ for HLA-DQA, 153 for D1S80

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[1] Dipartimento di Medicina Interna e Medicina Pubblica (DI.M.I.M.P), Sezione di Medicina Legale; Università degli Studi di Bari, Italy.
[2] Dipartimento di Medicina Interna e Medicina Pubblica (DI.M.I.M.P), Sezione di Medicina del Lavoro; Università degli Studi di Bari, Italy.

Blood samples were obtained from selected and unrelated individuals. DNA was extracted from the single samples according to the protocol described by Walsh et al. (1) starting from 10 μL whole blood and using a Chelex® solution at 5%. One to five ng of DNA were used for PCR. Amplification was carried out in a Perkin-Elmer DNA thermal Cycler 480. The conditions were those recommended by the manufacturer (2,3). Data were analyzed for the Hardy-Weinberg equilibrium by calculating the expected homozygote/heterozygote frequencies, the likelihood ratio test and the χ^2 test.

The dataset can be accessed at http://www.dimimp.uniba.it/medlegal/emogen/freq.htm

References

1. Walsh PS, Metzger DA, Higuchi R. Chelex 100 a medium for simple extraction of DNA for PCR-base typing from forensic material. BioTechniques 1989;7:852–5.
2. Amplitype™ HLA DQAlpha. Forensic DNA amplification and typing kit users guide. Roche Molecular Systems, Inc, Branchburg, New Jersey, 1992.
3. Amplitype™ D1S80. PCR amplification and typing kit user guide. Roche Molecular Systems, Inc., Branchburg, New Jersey, 1992.

Allele	HLA-DQA	D1S80
1.1	0.175	
1.2	0.192	
1.3	0.017	
2	0.150	
3	0.101	
4	0.364	
16		0.000
17		0.005
18		0.215
19		0.000
20		0.030
21		0.020
22		0.060
23		0.010
24		0.385
25		0.030
26		0.025
27		0.010
28		0.035
29		0.095
30		0.010
31		0.055
32		0.005
33		0.005
34		0.000
35		0.000
36		0.000
37		0.000
38		0.000
40		0.005
>40		0.000